



Fat Trillion

by Arya Akhavan and William Parent (November 2015)

Angles for R.I. = 1.540

61 + 12 girdles = 73 facets

3-fold, mirror-image symmetry

96 index

$L/W = 1.056$ $T/W = 0.702$ $U/W = 0.677$

$P/W = 0.517$ $C/W = 0.121$

$Vol./W^3 = 0.253$

PAVILION

P1	44.45°	03-29-35-61-67-93	Cut to centerpoint.
P2	44.14°	08-13-19-24-40-45- 51-56-72-77-83-88	Meet at culet.
G1	90.00°	03-09-23-29-35-41- 55-61-67-73-87-93	Set stone size.
P3	65.87°	03-09-23-29-35-41- 55-61-67-73-87-93	Meet P2, G1
P4	43.64°	02-30-34-62-66-94	Meet P1, P3
P5	43.50°	09-12-20-23-41-44- 52-55-73-76-84-87	Meet P2, P3; culet

CROWN

C1	42.66°	09-23-41-55-73-87	Set girdle width.
C2	28.00°	03-29-35-61-67-93	Level girdle.
T	0.00°	Table	Meet C1, C2

This design was written as a Skype-based tutorial for William Parent, for him to use on a piece of synthetic flame-fusion ruby, with some mixed concave and flat faceting. The goal was to have an interesting pavilion with lots of facets, and a simple crown with a very large table. Works in materials from quartz to GGG (RI = 1.54 - 2.03) with no changes.

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